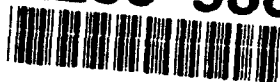
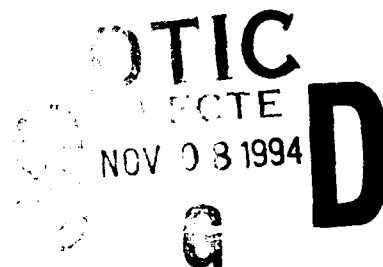


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of
Defense



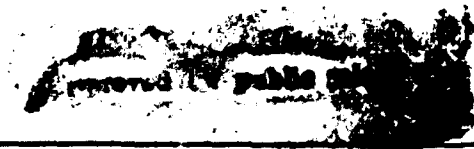
DoD
Electronic Data
Interchange (EDI)
Convention

ASC X12 Transaction Set 110
Air Freight Invoice
(Version 003020)

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March 1993



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Department
of
Defense

DoD
Electronic Data
Interchange (EDI)
Convention

ASC X12 Transaction Set 110
Air Freight Invoice
(Version 003020)

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Executive Agent for EC/EDI/PLUS
Defense Logistics Agency
Cameron Station
Alexandria, VA 22304-6100

**ASC X12 TRANSACTION SET 110 AIR
FREIGHT INVOICE (VERSION 003020)**

Region For	
US CRA&I	<input checked="" type="checkbox"/>
INT LAB	<input type="checkbox"/>
Unpublished	<input type="checkbox"/>
Activity Codes	
Avail	and/or Special

A-1

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FORMATTING INVOICE INFORMATION FOR THE DoD
TRANSPORTATION PAYMENT SYSTEM USING THE X12.101
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10.i INTRODUCTION

This is an Electronic Data Interchange (EDI) systems design document that describes the standard or "convention" the Department of Defense (DoD) will use to accept a transportation invoice using the ASC X12.101 Transaction Set 110 Air Freight Invoice (003020). It contains information for the design of interface computer programs that serve to link systems application computer programs and an EDI translator computer program.

Who Needs to Use This Document

Computer programmers can use this document to identify the data in a populated EDI transaction with data requirements of their specific application database. Conversely, programmers can identify where their applications data requirement should be carried in an EDI transaction.

Why Use a Convention

There are more ways to populate an EDI transaction than there are ways to fill out a blank form. A convention defines the rules for filling in or "populating" an EDI transaction with a specific data set. Following a convention ensures the integrity of data that is produced and processed by EDI capable computer systems.

Contents

Four sections are included in this document.

- Section 10.2, Control Segments, identifies the specific data requirements for formatting the EDI interchange control segments needed to send and receive EDI transactions.
- Section 10.5, Data Element Cross-Reference Matrix, lists the data requirements of DoD and specifies where each data element should be carried in the transaction set. This section can be used to map an existing application database into the transaction set.
- Section 10.7, DoD Conventions, lists the layout of the target transaction set by segment and data element. Identified along side each transaction set data element is the cross-reference data element from Section 10.5. This section can be used to interpret segments and data elements of a populated transaction set.
- Appendices contain examples of populated transaction sets, trading partner data element matrix, and other items that serve as references for software developers.

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10.2 Control Segments

Overview

This chapter describes the Electronic Data Interchange (EDI) control segments (interchange control segments and functional group segments). The control segment information was derived from the ASC X12 Standards Draft Version 3 Release 2 (003020).

Purpose

This chapter identifies specific data requirement for formatting the EDI control segments when transmitting and receiving EDI transactions. The format and data content of the control segments is usually managed by EDI translation software. The data requirement described herein should be used to set control segment format when installing or initializing translation software for transmission and reception of EDI transaction.

Contents

Two items are included in this chapter.

- Table 10.2-1, Interchange Control Segment Hierarchy describes the control segments in their order of occurrence in an EDI communications interchange.
- Table 10.2-2, DoD Convention ASC X12 Control Segments is a detailed description of the Department of Defense data conventions for formatting EDI standard control segments. All segments identified in Table 10.2-1 are broken down and described by their discrete data elements.

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TABLE 10.2-1

Control Segment Hierarchy

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Interchange Control Envelope
Control Segments

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	ISA	Interchange Control Header	M	1	
USE	20	GS	Functional Group Header	M	1	
			•			
			• Grouped Transactions			
			•			
USE	30	GE	Functional Group Trailer	M	1	
USE	40	IEA	Interchange Control Trailer	M	1	

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TABLE 10.2-2

DoD Convention

ASC X12 Control Segments

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Segment: **ISA** Interchange Control Header

Usage: M

Purpose: To start and identify an interchange of one or more functional groups and interchange-related control segments. The actual values of the data element separator and segment terminator for this interchange are set by the interchange control header. In a particular interchange, the value at the fourth character position is the data element separator, and the value of the last character position is the value of the segment terminator.

Note: The interchange control number value in this header must match the value in the same data element in the corresponding interchange control trailer.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>				
ISA01	I01	Authorization Information Qualifier Code to identify the type of information in the Authorization Information.	M ID 2/2				
<table><tr><th><u>Code</u></th><th><u>Definition</u></th></tr><tr><td>00</td><td>No Authorization Information Present</td></tr></table>				<u>Code</u>	<u>Definition</u>	00	No Authorization Information Present
<u>Code</u>	<u>Definition</u>						
00	No Authorization Information Present						
ISA02	I02	Authorization Information Information used for additional identification or authorization of the sender or the data in the interchange.	M AN10/10				
ISA03	I03	Security Information Qualifier Code to identify the type of information in the security information.	M ID 2/2				

Authorization Qualifier
[001]

Authorization Info
[002]

If no authorization information is agreed to by trading partners, fill field with zeroes.

Security Qualifier
[003]

Code Definition

00 No security information present.

Security Info
[004]

If no security information is
agreed to by trading partners, fill
field with zeroes.

ISA04 I04 Security Information M AN10/10
This is used for identifying the security information
about the sender or the data in the interchange.

Sender Qualifier
[005]

Use authorized X12 code list.

ISA05 I05 Interchange Id Qualifier M ID 2/2
Qualifier to designate the system/method of code
structure used to designate the sender ID element
being qualified.

Sender Id
[006]

DoD activities use Department of
Defense Activity Address
Code (DoDAAC) or other code
coordinated with the Defense
Transportation EDI Administrator.
Non-DoD activities use identifica-
tion code qualified by ISA05 and
coordinated with the VAN.

ISA06 I06 Interchange Sender's Id M AN15/15
Identification code published by the sender for other
parties to use as the receiver ID to route data to
them.

Interchange Qualifier
[007]

Use authorized X12 code list.

ISA07 I05 Interchange Id Qualifier M ID 2/2
Code to identify the type of information in the
Authorization Information.

<p>Receiver Id [008]</p> <p>For DoD activities, use Department of Defense Activity Address Code (DoDAAC) or other code coordinated with the Defense Transportation EDI Administrator. For Non-DoD activities, use identification code qualified by ISA07 and coordinated with the VAN.</p> <p>Date [009]</p> <p>Assigned by translation software.</p> <p>Time [010]</p> <p>Assigned by translation software.</p> <p>Standards Id [011]</p>	<p>ISA08 107 Interchange Receiver's Id M AN15/15 Identification code published by the receiver of the data.</p> <p>ISA09 108 Interchange Date M DT 6/6 Date of the interchange.</p> <p>ISA10 109 Interchange Time M TM 4/4 Time of the interchange.</p> <p>ISA11 110 Interchange Control Standard M ID 1/1 Identifier Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.</p> <table> <tr> <th>Code</th><th>Definition</th></tr> <tr> <td>U</td><td>U.S. EDI Community of ASC X12, TDCC, and UCS</td></tr> </table> <p>ISA12 111 Interchange Control Version M ID 5/5 This version number covers the interchange control segments and the functional group control segments.</p>	Code	Definition	U	U.S. EDI Community of ASC X12, TDCC, and UCS
Code	Definition				
U	U.S. EDI Community of ASC X12, TDCC, and UCS				

Version Id
[012]
Version ID as defined or agreed upon by the trading partners.

Interchange Control Number
[013]
Assigned by translation software.

Acknowledgment Request
[014]
Code value agreed upon by trading partners.

Test Indicator
[015]
Code value agreed upon by trading partners.

Code	Definition
00302	Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1991

ISA13 I12 Interchange Control Number M NO 9/9
This number uniquely identifies the interchange data to the sender.

ISA14 I13 Acknowledgment Requested M ID 1/1
Code sent by the sender to request an interchange acknowledgement.

Code	Definition
0	No Acknowledgment Requested
1	Interchange Acknowledgement Requested

ISA15 I14 Test Indicator M ID 1/1
Code to indicate whether data enclosed by this interchange envelope is test or production.

Code	Definition
P	Production Data
T	Test Data

ISA16 I15 Subelement Separator M AN 1/1
This is a field reserved for future expansion in separating data element subgroups.

Subelement Separator
[016]

Segment: GS Functional Group Header

Usage: M

Purpose: To indicate the beginning of a functional group and to provide control information

Comment: A. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Syntax Notes: 01 The data interchange control number (GS06) in this header must be identical to the same data element in the associated Functional Group Trailer (GE02).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
-----------	--------------	------	------------

GS01	479	Functional Id Code	M ID 2/2
------	-----	--------------------	----------

Code identifying a group of application related Transaction Sets.

Functional Id
[020]

Code Definition

IA	110 - Air Freight Details and Invoice
IM	210 - Freight Details and Invoice (Motor)
MI	213 - Carrier Shipment Status Inquiry
QM	214 - Shipment Status Message
IR	410 - Freight Details and Invoice (Rail)
RA	820 - Payment Order/Remittance Advice
SI	858 - Shipment Information
FB	859 - Freight Invoice (Generic Mode)
CG	994 - Administrative Message
FA	997 - Functional Acknowledgement

Choose the code value appropriate to the information content of the functional group. See X12 Dictionary for source code list.

GS02	142	Application Sender's Code	M AN 2/12
------	-----	---------------------------	-----------

Code identifying party sending transmission. Codes agreed to by trading partners.

Sender's Code
[021]

DoD activities use Department of Defense Activity Address Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. Recommend for increased security that non-DoD code differ from that used in ISA06.

Receiver's Code
[022]

DoD activities use Department of Defense Activity Address Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. Recommend for increased security that non-DoD code differ from that used in ISA08.

Date
[023]

Assigned by translation software.

Time
[024]

Assigned by translation software.

Group Control Number
[025]

Assigned by translation software.

GS03 124 Application Receiver's Code M AN 2/12
Code identifying party receiving transmission. Codes agreed to by trading partners.

GS04 29 Group Date M DT 6/6
Date sender generated a functional group of transaction sets.

GS05 30 Group Time M TM 4/4
Time (HHMM) when the sender generated a functional group of transaction sets (local time at sender's location).

GS06 28 Group Control Number M NO 1/9
Assigned number originated and maintained by the sender.

Agency Code
[026]

Indicates that an ANSI X12 standard is being transmitted.

Version/Release
[027]

Code value agreed to by trading partners. See X12 Dictionary for source code list.

GS07 455 Responsible Agency Code M ID 1/2

Code used in conjunction with Data Element 480 to identify the issuer of the standard.

Code	Definition
------	------------

X	Accredited Standards Committee X12
---	------------------------------------

GS08 480 Version/Release/Industry Id Code M ID 1/12

Code indicating the version, release, subrelease and industry identifier of the EDI standard being used. (See X12 Dictionary)

Code	Definition
------	------------

003020	Draft Standards Approved By ASC X12 Through October 1991
--------	--

Segment: GE Functional Group Trailer

Usage: M

Purpose: To indicate the end of a functional group and to provide control information

Comment: A. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Syntax Notes: 01 The data interchange control number (GE02) in this trailer must be identical to the same data element in the associated Functional Group Header (GS06).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GE01	97	Number of Included Sets	M N0 1/6
		Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.	
GE02	28	Group Control Number	M N0 1/9
		Assigned number originated and maintained by the sender.	

Number of Segments
[028]

Assigned by the translation software.

Group Control Number
[029]

Assigned by the translation software. This control number must match the control number of the preceding GS06 control number.

Segment: IEA Interchange Control Trailer

Usage: M

Purpose: To define the end of an interchange of one or more functional groups and interchange related control segments.

Note: The interchange control number in this trailer must match the value in the same data element in the corresponding interchange header.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IEA01	116	Number of Included Functional Groups	M N0 1/5
		A count of the number of functional groups included in a transmission.	
IEA02	112	Interchange Control Number	M N0 9/9
		This number uniquely identifies the interchange data to the sender.	

Functional Group Count
[040]

Assigned by translation software.

Interchange Control Number
[041]

Assigned by translation software.
This number must match the number that occurs in ISA13.

10.5 DATA ELEMENT CROSS-REFERENCE MATRIX

Overview

This chapter lists the data element cross-reference between the Department of Defense (DoD) ASC X12.101 Transaction Set 110 Air Freight Invoice (003020). We derived the cross-reference from the following:

- Examination of DoD transportation invoice information data requirements.
- Analysis of ASC X12.101 Transaction Set 110 Air Freight Invoice.
- Comments submitted by DoD activities and commercial carriers involved in the DoD electronic data interchange effort.

Purpose

This chapter identifies specific data in an application and their corresponding EDI mapping into the Transaction Set 110. Data elements from an existing application database can be identified with elements in this cross-reference. If no application exists, the cross-reference provides enough information to develop a database design to automate the application. With an application in place, this cross-reference will expedite mapping of the database into a commercial EDI translation package. All trading partners who plan to exchange the 110 with DoD can use this document as a reference for the development of their database/EDI translator interface program.

Contents

One table is included in this chapter. Table 10.5-1, Data Element Cross-Reference lists all the discrete data elements of the DoD invoice data requirements and their corresponding segment and data element of the ASC X12.101 Transaction Set 110 Air Freight Invoice.

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TABLE 10.5-1

DATA ELEMENT CROSS-REFERENCE

DoD Transportation Invoice Data Using ASC X12.101 Transaction Set 110 Air Freight Invoice.

How To Read This Table

Table 10.5-1 cross-references discrete DoD invoice data requirements to the corresponding segment and data elements of the Transaction Set 110. The following definitions explain how table 10.5-1 is organized. Understanding the information in this table requires familiarity with EDI standards.

Government References

The first three columns on the left in Table 10.5-1 identify the specific invoice data element.

- **INVOICE DATA NAME:** Lists individual data elements required to send a transportation invoice. The user should identify these elements with a data name in their internal database system.
- **INDEX:** Three entries may appear in this column and represent various levels of indexing used to sort the data names in a data dictionary.
- **Q:** An asterisk (*) in this column identifies the data as a qualifier code.

EDI References

The remaining seven columns identify the detailed mapping of each data name into Transaction Set 110. Using these references is explained below in "How To Use This Table".

- **AREA:** The area of the transaction set where the data is mapped. A = header, B = detail, C = summary.
- **POS:** The sequential position of a specific segment within the area of the transaction set.
- **REF DES:** The first two or three alphanumeric characters identify a transaction set segment; the last two numeric characters in the column identify a data element position in the segment.
- **DE #:** The EDI data element number that appears at that position in the segment.
- **VALUE:** The recommended code value(s) that should be used.

- DoD CONVENTIONS: Additional information about the data as they apply to Department of Defense use.

How To Use This Table

This table maps a data element to a specific data element in an EDI transaction set.

1. Select any data element from the INVOICE DATA NAME list,
2. Identify the AREA, POS, and REF DES for that DATA NAME,
3. Go to Table 10.7-2 DoD Segment Hierarchy,
4. Find the AREA (Table A = header, etc.) in the hierarchy,
5. Locate the segment that corresponds to the POS and the REF DES. NOTE: The POS may not appear in some hierarchy tables. In this case, use the segment id identified by the first 2-3 characters in the REF DES,
6. In the left-hand column, identify the page number of the segment Id,
7. Turn to that page number in Table 10.7-3,
8. Now in the convention table 10.7-3, find the REF DES from step, 2 under the Ref. Des. column on the right hand side of the page,
9. You have now mapped a data element from table 10.5-1 into the convention table 10.7-3.

The INVOICE DATA NAME from Table 10.5-1 appears in the right hand column along with its INDEX and the DoD CONVENTION. The EDI standard definition of the data element appears in the right hand column of the page.

Each INVOICE DATA NAME from Table 10.5-1 can be mapped into the transaction set in this manner.

(BLANK PAGE)

110 AIR FREIGHT INVOICE
DATA NAME

INDEX Q TBL POS DES REF VALUE DoD CONVENTION

Transaction Set Id [001] * 1 10 ST01 143 110 - X12.101 Air Freight Details and Invoice

Transaction Set Control Number [002] 1 10 ST02 329

The application and structure of the control number must be agreed upon between DoD and its trading partners. The first five digits will indicate the interchange control number. The last four digits represent the sequence of the transaction within the functional group.

Invoice Number [003] 1 20 B302 76

Transportation service provider's unique invoice number.

GBL Number [004] 1 20 B303 145

DoD unique number representing a shipment. The number is made up of one or two alpha characters followed by six or seven numbers. Do not use any punctuation or special characters.

Shipment Method of Payment [005] 1 20 B304 146 PP - Prepaid

Invoice Date [006] 1 20 B306 373

Date the invoice is issued. Use format YYMMDD.

Total Charges [007] 1 20 B307 193

Total shipment charge including linehaul, accessorial, special, and fuel surcharge charges. Implied decimal at second position from right.

Correction Indicator [008] * 1 20 B308 202 AD - Supplemental
CA - Cancel

If the invoice is submitted for the first time (original invoice), this optional data field is not used.

Delivery Date

[009] 1 20 B309 32

Date shipment is delivered to consignee. Not required for submission of supplemental invoices. Use format YYMMDD. Qualify in B310.

Delivery Date Qualifier

[010] * 1 20 B310 374 035 - Delivered

Billing Carrier SCAC

[011] 1 20 B311 140

Use the SCAC of the carrier that issues the invoice.

Transaction Type

[011 010] 1 30 B3A01 640 FB - Final Bill
PB - Partial Bill

Carrier Reference Number Qualifier

[012] * 1 40 N901 128 CN - Carrier Reference Number (PRO Number)

Carrier Reference Number

[013] 1 40 N902 127

Optional data field available for carrier to express reference number other than invoice number. Qualify in N901.

Payee Code Qualifier

[014] * 1 40 N901 128 PQ - Payee Identification

Payee Code

[015] 1 40 N902 127

Identification assigned by DoD payment center. Qualify in N901.

Payee Zip Code

[016] 1 40 N903 369

Zip code of location that payee authorizes payment to be sent. Must match payee information on file at payment center.

Carrier Pickup Date Qualifier

[017] * 1 70 DTM01 374 140 - Actual

Carrier Pickup Date

[018] 1 70 DTM02 373

Date carrier picked up shipment if pickup service is furnished by air carrier. Not required for submission of supplemental invoices. Use format YYMMDD. Qualify in DTM01.

Carrier Pickup Time

[019] 1 70 DTM03 337

Time carrier picked up shipment. Use format HHMM.

110 AIR FREIGHT INVOICE
DATA NAME

INDEX	Q	TBL	POS	REF DES	DE #	VALUE	DoD CONVENTION
1020 J	1	80	ITD03	338			Discount terms, expressed as a percent, available to the purchaser if an invoice is paid on or before the number of discount days has expired. Explicit decimal required. Express accuracy to tenths of a percent (i.e. 10 percent is expressed 10.0).
1021 J	1	80	ITD05	351			The number of days in the terms discount period by which payment is due if terms discount is earned.
1022 J	*	1	100	N101	98	IU	- Issuer
1023 J	*	1	100	N103	66	27	- Government Bill Of Lading Office Code (GBLOC)
1024 J	1	100	N104	67			Code of Government office that issues GBL. Qualify in N103.
1025 J	*	1	100	N101	98	OC	- Origin Carrier
1026 J	*	1	100	N103	66	2	- SCAC
1027 J	1	100	N104	67			Use SCAC of origin carrier. Qualify in N103.
1028 J	*	1	100	N101	98	DC	- Destination Carrier
1029 J	*	1	100	N103	66	2	- SCAC

Destination Transportation Company SCAC	[030]	1	100	N104	67	Use SCAC of the carrier making the delivery. Qualify in N103.	
Service Loop Charge Identifier	[034]	*	2	10	LX01	554	Assign a sequential number for each charge item. Charges include transportation linehaul, accessorial, miscellaneous, and authorized surcharges. Use one LX01 for each L108 (service charge code).
Description, Marks, and Numbers	[035]	*	2	150	L501	213	Mandatory ANSI syntax field not required by DoD.
Service Charge	[036]		2	180	L104	58	Charge for each service identified in L108. Implied decimal at second position from right.
Service Charge Code	[037]	*	2	180	L108	150	Services regulated by the Military Traffic Management Command (MTMC). See Billing Instructions available from DoD Payment Center for more information. See Appendix 10.F for cross reference from DoD codes to ASC X12 codes.
Service Charge Description	[038]	*	2	180	L112	276	Use free form description of any third party or miscellaneous service code identified in L108. See Billing Instructions available from DoD Payment Center for more information. See appendix 10.F for application.
Delivery Note	[039]	*	3	70	NTE01	363	DEL - Delivery Note
Damage Indicator	[040]		3	70	NTE02	3	Use code "D" to certify damage apparent upon delivery.
Payment Note	[041]	*	3	70	NTE01	363	PMT - Payment Note

DEPARTMENT OF DEFENSE
EDI CONVENTION

AIR FREIGHT INVOICE
110.003020

110 AIR FREIGHT INVOICE DATA NAME	INDEX	Q	TBL	POS	REF DES	DE #	VALUE	DoD CONVENTION
Waiver Indicator	[042]		3	70	NTE02	3		Use code "W" to indicate that a waiver has been received.
Included Number of Segments	[045]		3	80	SE01	96		Total segments in this transaction set including the ST and SE segments.
Transaction Set Control Number	[046]		3	80	SE02	329		This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.

10.7 DoD CONVENTIONS

Overview

This chapter is the convention for the ASC X12.101 Transaction Set 110 (Version 003020) as used by the Department of Defense for accepting a transportation invoice. It was derived from:

- Table 10.5-1, Data Element Cross-Reference Matrix that describes the discrete DoD data requirements for invoices.
- ASC X12.101 Transaction Set 110 Air Freight Invoice.

A relational database management system was used to merge the Data Element Cross-Reference Matrix and a Transaction Set 110 database into the subset of 110 segments described in table 10.7-3 of this chapter.

Purpose

This chapter contains all necessary information for a DoD trading partner to map and translate a Transaction Set 110. All trading partners who plan to exchange the Transaction Set 110 can use this document as a reference for the development of their EDI database/translator interface program.

Contents

Three tables are included in this chapter.

- Table 10.7-1, ASC X12.101 Transaction Set 110 Segment Hierarchy describes the 110 segments as they appear in the ASC X12 Standards Dictionary.
- Table 10.7-2, DoD Model Transaction Set 110 Segment Hierarchy describes the subset of 110 segments used for sending transportation invoices.
- Table 10.7-3, Conventions is a detailed description of the Department of Defense conventions for transmitting Transaction Set 110. All segments identified in Table 10.7-2 are detailed in Table 10.7-3 by segment, position, and code value.

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TABLE 10.7-1

SEGMENT HIERARCHY

ASC X12.101 TRANSACTION SET 110 AIR
FREIGHT INVOICE (Version 003020)

(Blank Page)

ASC X12.101 Transaction Set 110
Air Freight Details and Invoice (003020)
Segment Hierarchy

Table 1 - Header Area

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	ST	Transaction Set Header	M	1	
USE	20	B3	Beginning Segment for Carrier's Invoice	M	1	
USE	30	B3A	Invoice Type	M	1	
USE	40	N9	Reference Number	O	25	
	50	C2	Bank ID	O	1	
	60	C3	Currency	O	1	
USE	70	DTM	Date/Time Reference	O	10	
USE	80	ITD	Terms of Sale/Deferred Terms of Sale	O	2	
USE	100	N1	Name	O	1	N1\10
	110	N2	Additional Name Information	O	1	
	120	N3	Address Information	O	2	
	130	N4	Geographic Location	O	1	
	140	N9	Reference Number	O	10	
	150	PER	Administrative Communications Contact	O	1	
	170	P1	Pick-up	O	1	
	180	POD	Proof of Delivery	O	1	
	190	V9	Event Detail	O	1	
	200	R1	Route Information (Air)	O	2	

Table 2 - Detail Area

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	LX	Assigned Number	M	1	LX\99999
	20	N1	Name	O	1	N1\2
	30	N2	Additional Name Information	O	1	
	40	N3	Address Information	O	2	
	50	N4	Geographic Location	O	1	
	60	N9	Reference Number	O	10	

	70	PER	Administrative Communications Contact	O	1	
	80	L4	Measurement	O	30	
	90	P1	Pick-up	O	1	
	100	POD	Proof of Delivery	O	1	
	110	V9	Event Detail	O	1	
	120	ACS	Ancillary Charges	O	1000	
	130	G47	Statement Identification	O	1	
	140	NTE	Note/Special Instruction	O	10	
USE	150	L5	Description, Marks and Numbers	M	1	L5\10
	160	L0	Line Item - Quantity and Weight	O	10	
	170	L10	Weight	O	30	
USE	180	L1	Rate and Charges	O	1	L1\30
	185	C3	Currency	O	1	
	190	SL1	Tariff Reference	O	1	

Table 3 - Summary Area

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
	10	L4	Measurement	O	30	
	20	L3	Total Weight and Charges	O	1	
	30	SL1	Tariff Reference	O	1	
	40	L10	Weight	O	30	
	50	ACS	Ancillary Charges	O	100	
	60	G47	Statement Identification	O	1	
USE	70	NTE	Note/Special Instruction	O	10	
USE	80	SE	Transaction Set Trailer	M	1	

TABLE 10.7-2

SEGMENT HIERARCHY

DoD MODEL FOR TRANSACTION SET
110 AIR FREIGHT INVOICE

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DoD Model Transaction Set 110
Air Freight Invoice
Segment Hierarchy

Table 1 - Header Area

Page No.	Pos No.	Seg ID	Name	Req Des	Use	Loop
13	10	ST	Transaction Set Header	M	1	ST\1
14	20	B3	Beginning Segment for Carrier's Invoice	M	1	
17	30	B3A	Invoice Type	M	1	
18	40	N9	Reference Number	O	25	
20	70	DTM	Date/Time Reference	O	10	
22	80	ITD	Terms of Sale/Deferred Terms of Sale	O	2	
24	100	N1	Name	O	1	N1\10

Table 2 - Detail Area

Page No.	Pos No.	Seg ID	Name	Req Des	Use	Loop
26	10	LX	Assigned Number	O	1	LX\99999
27	150	L5	Description, Marks and Numbers	M	1	L5\10
29	180	L1	Rate and Charges	O	30	

Table 3 - Summary Area

Page No.	Pos No.	Seg ID	Name	Req Des	Use	Loop
32	70	NTE	Note/Special Instruction	O	100	
33	80	SE	Transaction Set Trailer	M	1	

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TABLE 10.7-3

DoD 110 CONVENTION

How To Read This Table

This table contains two sets of references. ASC X12 references are contained in the right-hand column. Government references are contained in the left-hand column except for codes lists which are included in the right-hand column.

Government References

The left-hand and middle columns in Table 10.7-3 describe Department of Defense conventions.

- Left-hand column contains two general references.
 - > INDEX: is enclosed in brackets and corresponds to a specific INDEX from Table 10.5-1.
 - > INVOICE DATA NAME: Appears above the INDEX and corresponds to a specific DATA NAME from Table 10.5-1.
- Middle column: Contains a less-than sign to indicate where Department of Defense conventions vary from the ASC X12 convention.

To help the user determine the source data, the INDEX can be used to trace data elements back to Table 10.5-1.

ASC X12 References

The right-hand column describes the ASC X12 conventions. The information included at the beginning of a segment description is standard ASC X12 information. The subheadings listed under Data Element Summary describe conventions for each data element in the segment.

- > Ref Des, Data Element, Attributes: Three subheadings describe the format of the segment as prescribed by ASC X12.
- > Name: Describes the ASC X12 data element and offers the standard definition. It also lists the specific code values the Department of Defense prescribes and may provide other Department of Defense information.

How To Use This Table

This table can be used to identify the data contained in populated Transaction Set 110.

1. Identify a segment from a populated transaction set (See Appendix 10.C for examples of the 110).
2. Look up the segment in table 10.7-3.
3. Read the right-hand column to identify the Reference Designator (Ref.Des.). The Reference Designator combines the segment id and the data element position to form a single identifier.
4. Read the left-hand column immediately adjacent to the Reference Designator to find the discrete DATA NAME, INDEX, and DoD CONVENTION from Table 10.5-1 that is mapped to that Reference Designator. When multiple DATA NAMES appear for a single Reference Designator, there is usually a code qualifier somewhere in the same segment that identifies the data.

Segment: ST Transaction Set Header
Level: 1
Sequence: 10
Usage: M
Max Use: 1
Loop: 0
Purpose: To indicate the start of a transaction set and to assign a control number
Comment: 01 The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ST01	143	Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set.	
		<u>Code</u>	<u>Definition</u>
		110	X12.101 Air Freight Details and Invoice
ST02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number assigned by the originator for a transaction set.	

Transaction Set Id
[001 *]

Transaction Set Control
Number
[002]

The application and structure of the control number must be agreed upon between DoD and its trading partners. The first five digits will indicate the interchange control number. The last four digits represent the sequence of the transaction within the functional group.

Segment: B3 Beginning Segment for Carrier's Invoice

Level: 1

Sequence: 20

Usage: O

Max Use: 1

Loop: 0

Purpose: To transmit basic data relating to carrier's invoice.

Comment: 06 B306 is the Billing Date.

Syntax Notes: 09 P0910 - If either B309 or B310 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
B301	147	Shipment Qualifier	O ID 1/1
B302	76	Invoice Number Identifying number assigned by issuer.	M AN 1/22
B303	145	Shipment Identification Number Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification. (Does not contain blanks or special characters.)	O AN 1/30
B304	146	Shipment Method of Payment Code identifying payment terms for transportation charges.	M ID 2/2

Invoice Number
[003]

Transportation service provider's
unique invoice number.

GBL Number
[004]

DoD unique number representing a shipment. The number is made up of one or two alpha characters followed by six or seven numbers. Do not use any punctuation or special characters.

Shipment Method of
Payment
[005]

Code Definition

PP Prepaid

B305 188 Weight Unit Qualifier O ID 1/1

B306 373 Date M DT 6/6
Date (YYMMDD).

Invoice Date
[006]

Date the invoice is issued. Use format YYMMDD.

B307 193 Net Amount Due M N2 1/9

Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified.

Total Charge
[007]

Total shipment charge including linehaul, accessorial, special, and fuel surcharge charges. Implied decimal at second position from right.

B308 202 Correction Indicator O ID 2/2

Code used to indicate that the transaction set contains information which corrects a previous billing.

Correction Indicator
[008 *]

If the invoice is submitted for the first time (original invoice), this optional data field is not used.

Code Definition

AD Supplemental
CA Cancel

B309 32 Delivery Date C DT 6/6

Date for delivery of cargo to final consignee or to next mode.

Delivery Date
[009]

Date shipment is delivered to consignee. Not required for submission of supplemental invoices. Use format YYMMDD. Qualify in B310.

Delivery Date Qualifier
[010 *]

Billing Carrier SCAC
[011]

Use the SCAC of the carrier that issues the invoice.

B310 374 Date/Time Qualifier C ID 3/3

Code specifying type of date or time, or both date and time.

Code	Definition
------	------------

035	Delivered
-----	-----------

B311 140 Standard Carrier Alpha Code M ID 2/4

Standard Carrier Alpha Code

B312 373 Date O DT 6/6

Segment: B3A Invoice Type
Level: 1
Sequence: 30
Usage: M
Max Use: 1
Loop: 0
Purpose: To indicate type of invoice and number of shipments.
Comment: 02 B3A02 = Number of Shipments Invoiced

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
B3A01	640	Transaction Type Code	M ID 2/2
		Code specifying the type of transaction.	
		<u>Code</u>	<u>Definition</u>
		FB	Final Bill
		PB	Partial Bill

Transaction Type
[011 010]

B3A02 21 Number of Shipments O N0 1/5

Segment: N9 Reference Number

Level: 1

Sequence: 40

Usage: M

Max Use: 25

Loop: 0

Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier

Syntax Notes: 02 R0203 - At least one of N902 or N903 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N901	128	Reference Number Qualifier	M ID 2/2
		Code qualifying the Reference Number.	

Carrier Reference Number
Qualifier
[012 *]

Code Definition

CN Carrier Reference Number (PRO Number)

Payee Code Qualifier
[014 *]

Code Definition

PQ Payee Identification

N902	127	Reference Number	C AN 1/30
		Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	

Carrier Reference Number
[013]

Optional data field available for carrier to express reference number other than invoice number. Qualify in N901.

Payee Code
[015]

Identification assigned by DoD payment center. Qualify in N901.

Payee Zip Code
[016]

Zip code of location that payee
authorizes payment to be sent.
Must match payee information on
file at payment center.

N903	369	Free-form Description	C	AN	1/45
		Free-form descriptive text.			

N904	373	Date	O	DT	6/6
------	-----	------	---	----	-----

N905	337	Time	O	TM	4/6
------	-----	------	---	----	-----

Segment: DTM Date/Time Reference
Level: 1
Sequence: 70
Usage: M
Max Use: 10
Loop: 0
Purpose: To specify pertinent dates and times
Syntax Notes: 02 R0203 - At least one of DTM02 or DTM03 is required. P0203 - If either E102 or E103 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
DTM01 374	Date/Time Qualifier		M ID 3/3
		Code specifying type of date or time, or both date and time.	
		<u>Code</u> <u>Definition</u>	
		140 Actual	
DTM02 373	Date		C DT 6/6
		Date (YYMMDD).	
DTM03 337	Time		C TM 4/6
		Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	
DTM04 623	Time Code		O ID 2/2

Carrier Pickup Date Qualifier
[017 *]

Carrier Pickup Date
[018]

Date carrier picked up shipment if pickup service is furnished by air carrier. Not required for submission of supplemental invoices. Use format YYMMDD. Qualify in DTM01.

Carrier Pickup Time
[019]

Time carrier picked up shipment. Use format HHMM.

DTM05 624 Century

O NO 2/2

Segment: ITD Terms of Sale/Deferred Terms
of Sale

Level: 1

Sequence: 80

Usage: 0

Max Use: 2

Loop: 0

Purpose: To specify terms of sale.

Comment: 01 If the code in ITD01 is 04, then ITD09
is required and either ITD10 or ITD11
is required. If the code in ITD01 equals
05, then ITD06 or ITD07 is required.

15 ITD15 is the percentage applied to a
base amount used to determine a late
payment charge.

Syntax Notes: 03 L03040513 - If ITD03 is present, at
least one of ITD04, ITD05 or ITD13 are
required.

08 L08040513 - If ITD08 is present, at
least one of ITD04, ITD05 or ITD13 are
required.

09 L091011 - If ITD09 is present, at least
one of ITD10 or ITD11 are required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ITD01	336	Terms Type Code	O ID 2/2
ITD02	333	Terms Basis Date Code	O ID 1/2
ITD03	338	Terms Discount Percent	O R 1/6
		Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date.	

Discount Percent
[020]

Discount terms, expressed as a
percent, available to the purchaser
if an invoice is paid on or before
the number of discount days has
expired. Explicit decimal required.
Express accuracy to tenths of a
percent (i.e. 10 percent is ex-
pressed 10.0).

Discount Days
[021]

The number of days in the terms discount period by which payment is due if terms discount is earned.

ITD04	370	Terms Discount Due Date	C	DT	6/6
ITD05	351	Terms Discount Days Due	C	N0	1/3
		Number of days in the terms discount period by which payment is due if terms discount is earned.			
ITD06	446	Terms Net Due Date	O	DT	6/6
ITD07	386	Terms Net Days	O	N0	1/3
ITD08	362	Terms Discount Amount	O	N2	1/10
ITD09	388	Terms Deferred Due Date	O	DT	6/6
ITD10	389	Deferred Amount Due	C	N2	1/10
ITD11	342	Percent of Invoice Payable	C	R	1/5
ITD12	352	Description	O	AN	1/80
ITD13	765	Day of Month	C	N0	1/2
ITD14	107	Payment Method Code	O	ID	1/1
ITD15	954	Percent	O	R	1/10

Segment: N1 Name
Level: 1
Sequence: 100
Usage: M
Max Use: 1
Loop: 1
Purpose: To identify a party by type of organization, name and code

Comment: 04 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Syntax Notes: 02 R0203 - At least one of N102 or N103 is required.
03 P0304 - If either N103 or N104 is present, then the other is required.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
N101	98	Entity Identifier Code Code identifying an organizational entity or a physical location.	M ID 2/2
		<u>Code</u> <u>Definition</u>	
		IU Issuer	
		<u>Code</u> <u>Definition</u>	
		OC Origin Carrier	
		<u>Code</u> <u>Definition</u>	
		DC Destination Carrier	
N102	93	Name	C AN 1/35
N103	66	Identification Code Qualifier Code designating the system/method of code struc-	C ID 1/2

Issuing Office Qualifier
[022 *]

Tendered To Carrier Qualifier
[025 *]

Destination Transportation
Company Qualifier
[028 *]

Issuing Office GBLOC
Qualifier
[023 *]

ture used for Identification Code (67).

<u>Code</u>	<u>Definition</u>
27	Government Bill Of Lading Office Code (GBLOC)

Tendered To Carrier SCAC
Qualifier
[026 *]

<u>Code</u>	<u>Definition</u>
2	SCAC

Destination Transportation
Company SCAC Qualifier
[029 *]

<u>Code</u>	<u>Definition</u>
2	SCAC

N104 67 Identification Code C AN 2/17
Code identifying a party.

Issuing Office GBLOC
[024]

Code of Government office that is-
sues GBL. Qualify in N103.

Tendered To Carrier SCAC
[027]

Use SCAC of origin carrier.
Qualify in N103.

Destination Transportation
Company SCAC
[030]

Use SCAC of the carrier making
the delivery. Qualify in N103.

Segment: LX Assigned Number
Level: 2
Sequence: 10
Usage: M
Max Use: 1
Loop: 1
Purpose: To reference a line number in a transaction set.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
LX01	554	Assigned Number	M NO 1/6

Number assigned for differentiation within a transaction set.

Service Loop Charge Identifier [034 *]

Assign a sequential number for each charge item. Charges include transportation linehaul, accessorial, miscellaneous, and authorized surcharges. Use one LX01 for each L108 (service charge code).

Segment: L5 Description, Marks and Numbers
Level: 2
Sequence: 150
Usage: O
Max Use: 1
Loop: 2

Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers.

Comment: 02 L502 may be used to send quantity information as part of the product description.

03 L503 and L504 are "Paired" data elements. If one is used, both must be used except for rail transaction sets where STCC is understood.

Syntax Notes: 03 P0304 - If either L503 or L504 is present, then the other is required.

08 P0809 - If either L508 or L509 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
L501	213	Lading Line Item Number Sequential line number for a lading item.	O NO 1/3
L502	79	Lading Description	O AN 1/50
L503	22	Commodity Code	C AN 1/16
L504	23	Commodity Code Qualifier	C ID 1/1
L505	103	Packaging Code	O AN 5/5
L506	87	Marks and Numbers	O AN 1/45

Description, Marks, and
Numbers
[035 *]

Mandatory ANSI syntax field not
required by DoD.

L507	88	Marks and Numbers Qualifier	O	ID	1/2
L508	23	Commodity Code Qualifier	C	ID	1/1
L509	22	Commodity Code	C	AN	1/16
L510	595	Compartment ID Code	O	ID	1/1

Segment: L1 Rate and Charges

Level: 2

Sequence: 180

Usage: 0

Max Use: 1

Loop: 3

Purpose: To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements

Syntax Notes: 04 R040506 - At least one of L104,L105 or L106 is required.

14 P1415 - If either L114 or L115 is present, then the other is required.

17 P1718 - If either L117 or L118 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
L101	213	Lading Line Item Number	O N0 1/3
L102	60	Freight Rate	O R 1/9
L103	122	Rate/Value Qualifier	O ID 2/2
L104	58	Charge	C N2 1/9
		For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified.	
L105	191	Advances	C N2 1/9
L106	117	Prepaid Amount	C N2 1/9
L107	120	Rate Combination Point Code	O AN 3/9

Service Charge [036]

Charge for each service identified in L108. Implied decimal at second position from right.

Service Charge Code
[037 *]

Services regulated by the Military Traffic Management Command (MTMC). See Billing Instructions available from DoD Payment Center for more information. See Appendix 10.F for cross reference from DoD codes to ASC X12 codes.

Service Charge Description
[038 *]

Use free form description of any third party or miscellaneous service code identified in L108. See Billing Instructions available from DoD Payment Center for more information. See appendix 10.F for application.

L108	150	Special Charge or Allowance Code Code identifying type of special charge or allowance.	O ID	3/3
L109	121	Rate Class Code	O ID	1/3
L110	39	Entitlement Code	O ID	1/1
L111	16	Charge Method of Payment	O ID	1/1
L112	276	Special Charge Description Identification of special charge. This data element is used whenever an applicable code cannot be found in data element 150.	O AN	2/25
L113	257	Tariff Application Code	O ID	1/1
L114	74	Declared Value	C N2	2/10
L115	122	Rate/Value Qualifier	C ID	2/2
L116	372	Lading Liability Code	O ID	1/1
L117	220	Billed/Rated-as Quantity	C R	1/11

L118 221 Billed/Rated-as Qualifier

C ID 2/2

Segment: NTE Note/Special Instruction
Level: 3
Sequence: 70
Usage: O
Max Use: 10
Loop: 0
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
Comment: 00 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the "NTE" segment should therefore be avoided, if at all possible, in an automated environment.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
NTE01	363	Note Reference Code	O ID 3/3
		Code identifying the functional area or purpose for which the note applies.	
		<u>Code</u>	<u>Definition</u>
		DEL	Delivery Note
		<u>Code</u>	<u>Definition</u>
		PMT	Payment Note
NTE02	3	Free Form Message	M AN 1/60
		Free-form text.	

Delivery Note
[039 *]

Payment Note
[041 *]

Damage Indicator
[040]

Use code "D" to certify damage
apparent upon delivery.

Waiver Indicator
[042]

Use code "W" to indicate that a
waiver has been received.

Segment: SE Transaction Set Trailer
Level: 3
Sequence: 80
Usage: M
Max Use: 1
Loop: 0
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).
Comment: 00 SE is the last segment of each transaction set.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SE01	96	Number of Included Segments	M NO 1/6 Total number of segments included in a transaction set including ST and SE segments.
SE02	329	Transaction Set Control Number	M AN 4/9 Identifying control number assigned by the originator for a transaction set.

Included Number of
Segments
[045]

Total segments in this transaction
set including the ST and SE segments.

Transaction Set Control
Number
[046]

This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.

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10.C Examples - X12.101 Transaction Set 110 Air Freight Invoice

This appendix contains an example of Transaction Set 110 as it is used for transmitting invoice information to a DoD payment center.

The example illustrates the use of a 110 to transmit invoice information to the Defense Finance and Accounting Service - Indianapolis Center (DFAS-IN).

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Example - Invoice information from Carrier to DFAS-IN using ASC X12 110

ST*110*00001 n/l	Transaction set header
B3**7846-1112*B1562824*PP**910623*81690*	
*910623*035*AACS n/l	Beginning segment
B3A*FB n/l	Transaction type code
N9*CN*257684 n/l	Carrier reference number
N9*PQ*1633*45421 n/l	Payee code
DTM*140*910622*1230 n/l	Pickup date and time
ITD***5.0**15 n/l	Discount terms
N1*IU**27*LNFL n/l	Issuing Office GBLOC
N1*OC**2*AACS n/l	Transportation company tendered to SCAC
N1*DC**2*AACS	Destination transportation company SCAC
LX*1 n/l	Charge loop ID
L5*1 n/l	Charge sub-loop ID
L1****60000****LHS n/l	Transportation linehaul charge
LX*2 n/l	Charge loop ID
L5*1 n/l	Charge sub-loop ID
L1****21690****TPS****TAX n/l	Accessorial service charge
NTE*DEL*D n/l	Damage indicator
SE*18*00001 n/l	Transaction set trailer

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10.F Additional DoD Code Lists

This appendix contains additional DoD code lists for formatting invoice data to the ASC X12 110 transaction set. The accessorial code list for air shipments is in development and will be added in the future. Please note that DoD code definitions may not be exactly the same as those identified in the ASC X12 Standards publications.

Code list includes:

[037] - Service Charge Code

Footnote definitions:

* Need new X12 code

** Code to be moved from DE 152 to DE 150

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[037] Service Charge Code

Mapping: 2 180 L108 150

Third Party or Miscellaneous Services

DoD Code	L108 Value	DoD Definition	L112 Value
-	TPS*	Third Party/Miscellaneous Services	-

Linehaul Service

DoD Code	L108 Value	DoD Definition	L112 Value
-	LHS*	Linehaul service	-

Surcharges

DoD Code	L108 Value	DoD Definition	L112 Value
-	100	Air surcharge	-
-	405	Fuel surcharge	-

REPORT DOCUMENTATION PAGE

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